A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G01V1/50

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

Category °	ENTS CONSIDERED TO BE RELEVANT  Citation of document, with indication, where appropriate, of the relevant passages	Relevant to dalm No.
X	US 5 615 115 A (SHILLING ROY B) 25 March 1997 (1997-03-25) column 2, line 33 - line 61 column 3, line 7 - line 32; claim 1	1-7,9, 13-15
A	US 2003/125878 A1 (ANDRE PRIOUL ROMAIN CHARLES ET AL) 3 July 2003 (2003-07-03) paragraphs '0024! - '0028!	1,14
A	US 5 859 367 A (HOLBROOK PHILIP W) 12 January 1999 (1999-01-12) claim 1	1,14
A	US 5 081 612 A (SCOTT DAVID R ET AL) 14 January 1992 (1992-01-14) column 1, line 60 - column 2, line 25 -/	1,14

Further documents are listed in the continuation of box C.	X Patent family members are listed in annex.
Special categories of clied documents:  A' document defining the general state of the art which is not considered to be of particular relevance  E' earlier document but published on or after the international filing date  L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  O' document referring to an oral disclosure, use, exhibition or other means  P' document published prior to the international filing date but taler than the priority date claimed	<ul> <li>"T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention invention or annot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>"&amp;" document member of the same patent family</li> </ul>
Date of the actual completion of the international search	Date of mailing of the international search report
5 January 2005	14/01/2005
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentizan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Lorne, B

## INTERNATIONAL SEARCH REPORT

Intermenal Application No
PCT/EP2004/052652

O (Continue	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.		
Category °	Citation of document, with indication, where appropriate, of the relevant passages			
Α		1,14		
	US 6 434 487 B1 (THOMPSON KARL V) 13 August 2002 (2002-08-13) claim 1			

## INTERNATIONAL SEARCH REPORT

dormation on patent family members

Interrenal Application No PCT/EP2004/052652

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 5615115	Α	25-03-1997	NONE		
US 2003125878	A1	03-07-2003	EP WO	1456694 A1 03052459 A1	15-09-2004 26-06-2003
US 5859367	A	12-01-1999	AU AU CA GB NO WO	733280 B2 7163498 A 2289042 A1 2339292 A ,B 995297 A 9849581 A1	10-05-2001 24-11-1998 05-11-1998 19-01-2000 29-12-1999 05-11-1998
US 5081612	Α	14-01-1992	CA CA GB	2036484 Al 2036484 C 2242979 A ,B	01-10-1991 26-12-1995 16-10-1991
US 6434487	B1	13-08-2002	NONE		